<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: <u>10/552,909B</u>
Source: <u>1FWO</u>
Date Processed by STIC: <u>7/19/07</u>

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 01/19/2007
PATENT APPLICATION: US/10/552,909B   TIME: 16:26:48

Input Set : **N:\KEISHA\10552909b.txt**
Output Set: **N:\CRF4\01192007\J552909B.raw**

```
 3 <110> APPLICANT: Xiao, Yingxao
 4         Feng, Xin-Hua
 6 <120> TITLE OF INVENTION: Gene expression suppression agents
 8 <130> FILE REFERENCE: 132848-01US
10 <140> CURRENT APPLICATION NUMBER: US 10/552,909B
11 <141> CURRENT FILING DATE: 2005-10-13
13 <160> NUMBER OF SEQ ID NOS: 9
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 27
17 <212> TYPE: DNA
18 <213> ORGANISM: Human
20 <220> FEATURE:
21 <221> NAME/KEY: primer_bind
22 <223> OTHER INFORMATION: Primer to amplify upstream promoter containing Box D in the
Human 5S RNA
23         gene
25 <300> PUBLICATION INFORMATION:
26 <310> PATENT DOC NO: PCT WO 2004/106488 A2
27 <311> PATENT FILING DATE: 2003-05-12
28 <312> PUBLICATION DATE: 2004-12-09
30 <400> SEQUENCE: 1
31 aacggatcca aaacgctgcc tccgcga   27
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 25
35 <212> TYPE: DNA
36 <213> ORGANISM: Human
38 <220> FEATURE:
39 <221> NAME/KEY: primer_bind
40 <223> OTHER INFORMATION: Downstream reverse primer used to amplify the upstream
promoter containing
41         Box D in the Human 5S RNA gene. The sequence contains a Pst1 site at 7 bp
42         upstream of the transcription site.
44 <400> SEQUENCE: 2
45 tagacgctgc aggaggcgcc tggct    25
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 269
53 <212> TYPE: DNA
54 <213> ORGANISM: Human
56 <220> FEATURE:
57 <221> NAME/KEY: promoter
58 <223> OTHER INFORMATION: Calculated BamHI-PstI fragment of the upstream promoter
containing Box D
59         in the Human 5S gene. Cloned into pBluescript-KS to give plasmid pPPVI.
61 <400> SEQUENCE: 3
```

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62  ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg  60
64  ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
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 66 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggtcccc gatccgagcc 180
 68 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240
 70 ctcttggggc agccaggcgc ctccttcag 269
 72 <210> SEQ ID NO: 4
 73 <211> LENGTH: 84
 74 <212> TYPE: DNA
 75 <213> ORGANISM: Human
 77 <220> FEATURE:
 78 <221> NAME/KEY: terminator
 79 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
Serves as a
 80       top strand to anneal with SEQ ID NO: 5 to create a double-stranded DNA molecule.
 82 <400> SEQUENCE: 4
 84 agaagacgaa gctaagcagg gtcgggcctg gttagtactt ggatgggaga ccgcctggga 60
 86 ataccgggtg ctgtaggctt tttg 84
 89 <210> SEQ ID NO: 5
 90 <211> LENGTH: 88
 91 <212> TYPE: DNA
 92 <213> ORGANISM: Human
 94 <220> FEATURE:
 95 <221> NAME/KEY: terminator
 96 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
Serves as a
 97       top strand to anneal with SEQ ID NO: 4 to create a double-stranded DNA molecule.
 99 <400> SEQUENCE: 5
100 tcgacaaaaa gcctacagca cccggtattc ccaggcggtc tcccatccaa gtactaacca 60
102 ggcccgaccc tgcttagctt cgtcttct 88
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 367
107 <212> TYPE: DNA
108 <213> ORGANISM: Human
110 <220> FEATURE:
111 <221> NAME/KEY: promoter
112 <223> OTHER INFORMATION: A BamHI-SalI fragment of plasmid pPPV2 containing the
upstream promoter
113       containing Box D, A, C and the terminator of the Human 5S gene.
115 <400> SEQUENCE: 6
116 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
118 ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
120 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggtcccc gatccgagcc 180
122 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240
124 ctcttggggc agccaggcgc ctccttcagg aattcgatag aagacgaagc taagcagggt 300
126 cgggcctggt tagtacttgg atgggagacc gcctgggaat accgggtgctg taggctttt 360
128 tgtcgac 367
130 <210> SEQ ID NO: 7
131 <211> LENGTH: 51
132 <212> TYPE: DNA
133 <213> ORGANISM: Human
135 <220> FEATURE:
136 <221> NAME/KEY: misc_RNA
137 <222> LOCATION: Positioned with PstI at the 5' end and BbsI at the 3' end.
138 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand to
anneal with
```

```
139        SEQ ID NO: 8 to create a double-stranded DNA molecule. The "n" bases represent
140        any of the a, g, c, or t bases.
142 <400> SEQUENCE: 7
W--> 143 gcnnnnnnnn nnnnnnnnnn ntttcggnnn nnnnnnnnnn nnnnnntttt t 51
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 59
148 <212> TYPE: DNA
149 <213> ORGANISM: Human
151 <220> FEATURE:
152 <221> NAME/KEY: misc_RNA
153 <222> LOCATION: Positioned with PstI at the 5' end and BbsI at the 3' end.
154 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand to
anneal with
155        SEQ ID NO: 7 to create a double-stranded DNA molecule. The "n" bases represent
156        any of the a, g, c, or t bases.
158 <400> SEQUENCE: 8
W--> 159 agctaaaaan nnnnnnnnnn nnnnnnnncc gaaannnnnn nnnnnnnnnn nnngctgca 59
161 <210> SEQ ID NO: 9
162 <211> LENGTH: 399
163 <212> TYPE: DNA
164 <213> ORGANISM: Human
166 <220> FEATURE:
167 <221> NAME/KEY: misc_structure
168 <222> LOCATION: A BamHI-SalI fragment of plasmid pPPV2 containing the siRNA design.
169 <223> OTHER INFORMATION: The second stretch of the 19 "n" bases are complementary and
reverse to
170        the first stretch. The "n" bases represent any of the a, g, c, or t bases.  .
172 <400> SEQUENCE: 9
173 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
175 ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
177 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc gggggtcccc gatccgagcc 180
179 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240
W--> 181 ctcttggggc agccaggcgc ctccttcagc nnnnnnnnnn nnnnnnnnnt ttcggnnnnn 300
183 nnnnnnnnnn nnnnttttta gctaagcagg gtcgggcctg gttagtactt ggatgggaga 360
185 ccgcctggga ataccgggtg ctgtaggctt tttgtcgac 399
```

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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,28,29,30
Seq#:7; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:8; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,35
Seq#:8; N Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:9; N Pos. 271,272,273,274,275,276,277,278,279,280,281,282,283,284,285
Seq#:9; N Pos. 286,287,288,289,296,297,298,299,300,301,302,303,304,305,306
Seq#:9; N Pos. 307,308,309,310,311,312,313,314

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 40
Seq#:4; Line(s) 80
Seq#:5; Line(s) 97
Seq#:7; Line(s) 139

VERIFICATION SUMMARY   DATE: 01/19/2007
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L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
M:341 Repeated in SeqNo=9